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**Subject:** Background Documentation regarding issue at Monroe Township  
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**Attachments:** [Monroe Leachate Memo Final 12-2-2020 signed.pdf](#)

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FYI

Since the time this memo was issued, we have not reintroduced leachate to the sewers. We did however do a clean water test, which tried to reproduce the pressures required to breach the plumbing traps in the houses. Water was pumped into the sewers from the landfill's piping at 40, 60, and 90 GPM for several hours, with no significant increase in air pressure. Up to this point we believed that sustained pumping, due to a pump malfunction, at the rate of 85 gpm caused an increase in air pressure allowing the plumbing traps to be breached. This test leads us to believe that the leachate pumping volume alone is not the issue but involves some other factor. Because the two variables that would lead to an odor event seem to be air pressure in the sewer, and chemical concentrations in the sewer air, EPA and NJDEP would like to monitor these variables in real time. We would like to start monitoring prior to reintroduction of leachate, and continue during and after the reintroduction takes place.

The purpose will be two-fold:

1. Monitor to stop an odor event if one or both of these variables increases to a critical point;
2. and to find the source of the increase by investigating the circumstances contributing to the event as it is occurring.